

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 19.11.2016

Date of Reporting : 20.11.2016



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
39519	473	39992	50.10	28606	363	28969	0.00	796.93	10.65

* 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	32.94	8.40	0.00	41.34	45.69	46.39	0.70	87.73	0.00
Haryana	22.22	0.49	0.00	22.71	84.26	82.74	-1.53	105.45	0.00
Rajasthan	106.80	4.53	5.37	116.70	81.63	83.63	2.01	200.34	1.20
Delhi	14.37		0.00	14.37	37.71	39.02	1.31	53.39	0.03
UP	153.27	7.93	0.00	161.20	92.58	90.86	-1.72	252.06	0.00
Uttarakhand		8.54	0.00	11.87	20.27	21.04	0.78	32.92	0.00
HP		4.12	1.81	5.93	17.89	18.26	0.37	24.19	0.00
J & K		5.62	0.00	5.62	34.57	32.04	-2.53	37.65	9.41
Chandigarh				0.00	3.16	3.20	0.05	3.20	0.00
Total	329.60	39.62	7.18	379.74	417.75	417.19	-0.57	796.93	10.65

* 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	STO/A/PX transaction	Demand Met	Shortage	UI	STO/A/PX transaction			
Punjab	4737	0	71	-444	2659	0	102	-451	4737	19:00	0
Haryana	5873	0	-167	22	3017	0	-78	-293	5873	19:00	0
Rajasthan	8879	0	-52	525	7938	0	165	928	9835	8:00	396
Delhi	2796	0	65	-452	1457	0	90	-809	2837	11:00	0
UP	12484	30	-7	-48	10082	0	-101	130	12484	19:00	30
Uttarakhand	1625	0	52	217	1154	0	115	303	1674	7:00	0
HP	1178	0	-102	117	766	0	-34	401	1369	8:00	0
J&K	1773	443	-116	337	1452	363	-97	352	1773	19:00	443
Chandigarh	175	0	-19	-30	82	0	7	-30	175	8:00	0
Total	39519	473	-275	243	28606	363	168	531	39519	19:00	473

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

Diversity is 1.03

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

III. Regional Entities :

Entity	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	1840	2004	2003	44.28	1845	44.00	0.28	
	Rihand I STPS (2*500)	1000	943	1014	753	21.04	877	21.09	-0.05	
	Rihand II STPS (2*500)	1000	963	1010	739	21.41	892	21.45	-0.05	
	Rihand III STPS (2*500)	1000	963	1004	743	21.48	895	21.67	-0.19	
	Dadri I STPS (4*210)	840	815	208	156	3.99	166	4.04	-0.04	
	Dadri II STPS (2*490)	980	980	465	339	9.60	400	10.28	-0.69	
	Unchahar I TPS (2*210)	420	358	301	281	6.98	291	7.97	-0.99	
	Unchahar II TPS (2*210)	420	402	386	302	7.54	314	8.55	-1.01	
	Unchahar III TPS (1*210)	210	201	205	149	4.01	167	4.39	-0.37	
	ISTPP (Jhajihar) (3*500)	1500	1425	948	629	17.42	726	17.70	-0.28	
	Dadri GPS (4*130.19+2*154.51)	830	805	293	230	8.12	338	8.94	-0.82	
	Anta GPS (3*88.71+1*153.2)	419	407	0	0	0.00	0	0.00	0.00	
	Auraiya GPS (4*111.19+2*109.30)	663	624	0	0	0.00	0	0.00	0.00	
	Dadri Solar(5)	5	1	0	0	0.01	1	0.01	0.00	
	Unchahar Solar(10)	10	2	0	0	0.04	2	0.04	-0.01	
Singrauli Solar(15)	15	2	0	0	0.01	0	0.05	-0.05		
KHEP(4*200)	800	641	632	407	3.44	143	3.30	0.14		
Sub Total (A)	12112	11372	8470	6731	169	7057	173	-4.13		
B. NPC	NAPS (2*220)	440	409	441	452	9.69	404	9.82	-0.12	
	RAPS- B (2*220)	440	383	425	429	9.17	382	9.19	-0.03	
	RAPS- C (2*220)	440	225	234	234	4.95	206	5.40	-0.45	
	Sub Total (B)	1320	1017	1100	1115	23.81	992	24.41	-0.60	
C. NHPC	Chamera I HPS (3*180)	540	540	421	0	2.05	85	1.80	0.25	
	Chamera II HPS (3*100)	300	201	207	0	1.42	59	1.30	0.12	
	Chamera III HPS (3*77)	231	231	155	0	0.75	31	0.70	0.05	
	Bairasuli HPS(3*60)	180	108	62	0	0.56	23	0.55	0.01	
	Salal-HPS (6*115)	690	115	35	304	3.28	136	2.76	0.52	
	Tanakpur-HPS (3*31.4)	94	33	57	36	0.88	37	0.79	0.09	
	Uri-I HPS (4*120)	480	85	85	21	2.11	88	2.03	0.08	
	Uri-II HPS (4*60)	240	55	38	78	1.36	57	1.32	0.04	
	Dhauliganga-HPS (4*70)	280	210	212	0	1.24	51	1.16	0.08	
	Dulhasi-HPS (3*130)	390	383	396	0	3.86	161	3.70	0.16	
	Sewa-II HPS (3*40)	120	80	85	0	0.23	10	0.25	-0.01	
	Parbati 3 (4*130)	520	200	209	0	0.62	26	0.57	0.05	
	Sub Total (C)	4065	2239	1963	439	18	765	17	1.44	
	D.SJVNL	NJPC (6*250)	1500	1605	1538	0	7.32	305	7.50	-0.19
		Rampur HEP (6*88.67)	412	442	445	0	2.06	86	2.09	-0.03
Sub Total (D)		1912	2047	1983	0	9.38	391	9.59	-0.22	
E. THDC	Tehri HPS (4*250)	1000	1075	1067	0	6.44	269	6.30	0.14	
	Koteshwar HPS (4*100)	400	92	94	92	2.24	93	2.20	0.04	
	Sub Total (E)	1400	1167	1161	92	8.69	362	8.50	0.19	
	Sub Total (E)	1400	1167	1161	92	8.69	362	8.50	0.19	
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	511	1011	390	12.37	515	12.25	0.11	
	Dehar HPS (6*165)	990	159	495	140	3.92	163	3.82	0.10	
	Pong HPS (6*66)	396	178	264	66	4.17	174	4.28	-0.10	
	Sub Total (F)	2765	848	1770	596	20.46	852	20.35	0.11	
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	96	0	0.60	25	0.58	0.02	
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	825	0	4.20	175	4.15	0.05	
	Malana Stg-II HPS (2*50)	100	0	0	0	0.31	13	0.29	0.02	
	Shree Cement TPS (2*150)	300	0	-1	0	-0.04	-2	0.00	-0.04	
	Budhil HPS(IPP) (2*35)	70	0	0	0	0.23	9	0.23	0.00	
	Sub Total (G)	1662	0	921	0	5.30	221	5.24	0.06	
H. Total Regional Entities (A-G)	25237	18690	17368	8972	255.36	10640	258.51	-3.14		

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	0	0	-0.02	-1
	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	0	0	-0.08	-4
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1
	Rajpura (2*700)	1400	920	660	23.52	980
	Talwandi Saboo (3*660)	1980	308	308	9.57	399
	Thermal (Total)	6560	1228	968	32.94	1373
	Total Hydro	1000	388	343	8.40	350
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.00	0
	Solar	560	0	0	0.00	0
	Renewable(Total)	848	0	0	0.00	0
	Total Punjab	8408	1616	1311	41.34	1723
	Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00
DCRTPP (Yamuna nagar) (2*300)		600	555	464	12.04	502
Faridabad GPS (NTPC)(2*137.75+1*156)		432	0	0	0.00	0
RGTPP (khedar) (IPP) (2*600)		1200	0	0	0.00	0
Magnum Diesel (IPP)		25	0	0	0.00	0
Jhajjar(CLP) (2*660)		1320	551	364	10.19	424
Thermal (Total)		4497	1106	828	22.22	926
Total Hydro		62	15	9	0.49	20
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	1121	837	22.71	946
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1142	1121	25.08
	suratgarh TPS (6*250)	1500	450	409	10.15	423
	Chabra TPS (4*250)	1000	682	651	14.85	619
	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	162	164	3.95	164
	RAPS A (NPC) (1*100+1*200)	300	166	169	4.19	174
	Barsingsar (NLC) (2*125)	250	113	113	2.61	109
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	817	836	19.51	813
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	518	550	12.22	509
	Kawai(Adani) (2*660)	1320	602	602	14.24	594
	Thermal (Total)	8876	4652	4615	106.80	4450
	Total Hydro	550	212	171	4.53	189
	Wind power	4017	160	118	4.66	194
	Biomass	99	20	20	0.49	20
	Solar	1295	4	0	0.23	9
	Renewable/Others (Total)	5411	184	138	5.37	224
Total Rajasthan	14837	5048	4924	116.70	4863	
UP	Anpara TPS (3*210+2*500)	1630	1159	959	26.69	1112
	Obra TPS (2*50+2*94+5*200)	1194	284	279	6.61	276
	Paricha TPS (2*110+2*220+2*250)	1160	655	581	14.31	596
	Panki TPS (2*105)	210	68	68	1.63	68
	Harduaganj TPS (1*60+1*105+2*250)	665	337	314	8.33	347
	Tanda TPS (NTPC) (4*110)	440	272	224	6.17	257
	Roza TPS (IPP) (4*300)	1200	819	567	10.68	445
	Anpara-C (IPP) (2*600)	1200	991	972	24.16	1007
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	283	282	6.69	279
	Anpara-D(2*500)	1000	465	446	10.94	456
	Lalitpur TPS(3*660)	1980	384	356	8.78	366
	Bara(2*660)	1320	575	578	13.88	579
	Thermal (Total)	12449	6292	5626	138.87	5786
	Vishnuparyag HPS (IPP)(4*110)	440	112	112	2.70	112
	Alaknada(4*82.5)	330	80	75	1.65	69
	Other Hydro	527	190	108	3.59	149
	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	7274	6521	161.20	6717	
Uttarakhand	Other Hydro	1250	454	225	8.54	356
	Total Gas	225	162	99	3.30	137
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.04	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.04	2
	Total Uttarakhand	1802	616	324	11.87	495
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	77	76	1.92	80
	Pragati Gas Turbine (2x104+ 1x122)	330	267	263	6.43	268
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	249	280	6.02	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	593	619	14.37	599
	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	593	619	14.37	599	

HP	Baspa HPS (IPP) (3*100)	300	0	0	1.40	58
	Malana HPS (IPP) (2*43)	86	44	0	0.34	14
	Other Hydro	372	135	54	2.39	99
	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	83	71	1.81	75
	Renewable(Total)	486	83	71	1.81	75
	Total HP	1244	262	125	5.93	247
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	173	101	2.85
Other Hydro/IPP(including 98 MW Small Hydro)		308	137	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	310	194	6	234
Total State Control Area Generation		50078	16840	14855	379.74	15822
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		6748.36	6846.02	188.27	7845	
Total Regional Availability(Gross)	75315	40957	30673	823.37	34307	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8431	1534	65.45	2727
State Control Area Hydro	7163	2185	1461	41.43	1865
Total Regional Hydro	19397	10616	2995	106.87	4592

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.06	2
State Control Area Renewable	7356	267	209	7.22	301
Total Regional Renewable	7386	267	209	7.28	303

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)	-500	-500	0	500	0.00	10.95	-10.95
765 KV Gwalior-Agra (D/C)	1707	1793	2318	0	45.37	0.00	45.37
400 KV Zerda-Kankroli	-114	-49	86	121	0.00	1.09	-1.09
400 KV Zerda-Bhinmal	-45	42	232	77	1.03	0.00	1.03
220 KV Auraiya-Malanpur	-97	-103	0	121	0.00	2.39	-2.39
220 KV Badod-Kota/Morak	-66	-91	12	120	0.00	1.49	-1.49
Mundra-Mohindergerh(HVDC Bipole)	1797	1301	1805	0.00	36.58	0.00	36.58
400 KV RAPP- Sujalpur	260	269	438	0	7.51	0.00	7.51
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kv Phagi-Gwalior (D/C)	1263	1352	1919	0	37.25	0.00	37.25
Sub Total WR	4205	4014			127.74	15.91	111.82
400 kV Sasaram - Varanasi	147	132	160	0	4.81	0.00	4.81
400 kV Sasaram - Allahabad	2	1	31	17	0.18	0.00	0.18
400 KV MZP- GKP (D/C)	80	192	450	0	4.66	0.00	4.66
400 KV Patna-Balia(D/C) X 2	559	576	794	0	15.65	0.00	15.65
400 KV B'Sharif-Balia (D/C)	44	90	238	22	2.65	0.00	2.65
765 KV Gaya-Balia	202	266	354	0	6.64	0.00	6.64
765 KV Gaya-Varanasi (D/C)	364	486	717	0	12.49	0.00	12.49
220 KV Pusauli-Sahupuri	128	141	191	0	3.70	0.00	3.70
132 KV K'nasa-Sahupuri	-24	-28	0	30	0.00	0.50	-0.50
132 KV Son Ngr-Rihand	-40	-38	0	46	0.00	0.81	-0.81
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-191	-117	139	191	0.00	0.91	-0.91
400 KV Barh -GKP (D/C)	474	450	552	0	11.21	0.00	11.21
400 kV B'Sharif - Varanasi (D/C)	114	3	155	114	0.46	0.00	0.46
Sub Total ER	1859	2154			62.45	2.21	60.23
+/- 800 KV Biswanath Charialli-Agra	684	678	686	0.00	16.22	0.00	16.22
Sub Total NER	684	678			16.22	0.00	16.22
Total IR Exch	6748	6846			206.40	18.13	188.27

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
0.00	0.00	0.00	0.00	0.00	0.00	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
0.00	0.00	0.00	76.45	111.82	188.27	76.45	111.82	188.27

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	-2	0	0	19	0	0	-0.10

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	0.50	5.59	45.06	69.79	17.71	6.93	0.06	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						
50.21	22.01	49.82	15.53	50.00	0.043	0.066	0.00	0.00	30.21

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	410	0:00	400	12:01	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	0:00	403	10:27	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	422	20:58	401	10:20	0.0	0.0	1.1	0.0	1.1
Kanpur	400	418	20:58	396	10:27	0.0	0.0	0.0	0.0	0.0
Dadri	400	427	2:03	404	10:26	0.0	0.0	33.1	0.0	33.1
Ballabgarh	400	432	2:04	404	10:24	0.0	0.0	49.1	9.0	49.1
Bawana	400	0	0:00	0	0:00	100.0	100.0	0.0	0.0	100.0
Bassi	400	427	20:58	395	9:33	0.0	0.0	10.8	0.0	10.8
Hissar	400	422	20:28	399	10:20	0.0	0.0	7.0	0.0	7.0
Moga	400	424	20:27	409	14:38	0.0	0.0	17.1	0.0	17.1
Abdullapur	400	427	20:19	409	10:20	0.0	0.0	35.0	0.0	35.0
Nalagarh	400	434	20:22	413	10:28	0.0	0.0	56.9	6.3	56.9
Kishenpur	400	421	4:01	398	18:22	0.0	0.0	0.0	0.0	0.0
Wagoora	400	398	13:01	367	18:21	44.4	83.6	0.0	0.0	44.4
Amritsar	400	434	0:46	409	10:20	0.0	0.0	55.9	8.9	55.9
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	427	20:29	409	12:45	0.0	0.0	10.8	0.0	10.8
Rishikesh	400	418	0:00	396	10:29	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	777	19:28	736	10:27	0.0	0.8	0.0	0.0	0.0
Balia	765	789	2:02	760	10:23	0.0	0.0	0.0	0.0	0.0
Moga	765	806	20:53	778	14:48	0.0	0.0	11.4	0.0	11.4
Agra	765	796	19:29	746	10:26	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	810	20:56	762	10:20	0.0	0.0	21.0	0.0	21.0
Unnao	765	770	0:00	734	10:27	0.0	8.3	0.0	0.0	0.0
Lucknow	765	800	0:00	764	10:28	0.0	0.0	0.0	0.0	0.0
Meerut	765	812	20:58	760	10:26	0.0	0.0	9.2	0.0	9.2
Jhatikara	765	808	20:58	758	10:26	0.0	0.0	21.7	0.0	21.7
Bareilly 765 kV	765	795	20:58	755	10:27	0.0	0.0	0.0	0.0	0.0
Anta	765	800	20:56	762	9:30	0.0	0.0	0.0	0.0	0.0
Phagi	765	807	20:56	756	10:22	0.0	0.0	8.8	0.0	8.8

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	496.68	971.87	507.69	1440.82	197.23	356.96
Pong	426.72	384.05	412.63	588.94	416.91	755.83	59.92	264.11
Tehri	829.79	740.04	819.70	996.27	814.10	882.26	115.93	142.00
Koteswar	612.50	598.50	610.39	4.71	611.07	4.95	142.00	147.58
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	52.42	55.06
Rihand	268.22	252.98	868.40	592.10	850.20	258.70	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	510.88	2.81	507.06	4.64	45.28	122.57

* 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	-451	0	0	-444	0	0	-13.35	0.00	-13.35
Delhi	-210	-598	0	-333	-119	0	-8.80	-4.48	-13.29
Haryana	-594	301	0	-315	336	0	-9.83	6.21	-3.63
HP	292	109	0	199	-81	0	7.74	-1.34	6.40
J&K	352	0	0	337	0	0	7.84	-0.10	7.74
CHD	-30	0	0	-30	0	0	-0.36	-0.01	-0.37
Rajasthan	201	727	0	-7	532	0	8.36	23.98	32.34
UP	130	0	0	-48	0	0	-5.41	2.26	-3.15
Uttarakhand	146	156	0	146	71	0	3.71	4.04	7.75
Total	-164	695	0	-497	740	0	-10.11	30.55	20.45

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-444	-714	0	0	0	0
Delhi	-210	-524	105	-626	0	0
Haryana	-295	-626	372	-445	0	0
HP	439	199	109	-715	0	0
J&K	352	300	0	-15	0	0
CHD	0	-30	0	0	10	-35
Rajasthan	659	-7	1982	521	0	0
UP	161	-649	774	-100	0	0
Uttarakhand	183	146	353	-50	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	12.15%

(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	20
Haryana	3	23
Rajasthan	2	19
Delhi	6	38
UP	0	11
Uttarakhand	2	20
HP	4	39
J & K	3	33
Chandigarh	3	21

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 19.11.2016 :**
Normal**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.

Report for : 19.11.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER