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 17.11.2016
Date of Reporting : 18.11.2016

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
39763	421	40184	50.10	28791	697	29488	0.00	799.50	11.73

* 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	37.90	8.55	1.33	47.79	42.23	42.67	0.44	90.45	0.00
Haryana	29.05	0.41	0.00	29.45	77.09	76.03	-1.06	105.48	0.00
Rajasthan	107.70	3.70	7.84	119.24	73.38	76.61	3.23	195.85	1.67
Delhi	14.22		0.00	14.22	39.78	40.59	0.80	54.81	0.02
UP	155.82	7.85	0.00	163.67	92.28	93.24	0.97	256.92	0.92
Uttarakhand		7.59	0.00	11.64	20.40	20.29	-0.11	31.93	0.00
HP		4.39	1.83	6.22	17.38	18.22	0.84	24.44	0.00
J & K		5.36	0.00	5.36	34.97	31.11	-3.87	36.46	9.12
Chandigarh				0.00	3.29	3.16	-0.13	3.16	0.00
Total	344.70	37.85	11.00	397.59	400.79	401.91	1.12	799.50	11.73

* Shortage furnished by the respective constituent.$ 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	4640	0	144	-451	2926	0	104	-451	4640	19:00	0
Haryana	5878	0	-93	36	3051	0	-86	-238	5878	19:00	0
Rajasthan	8763	0	222	465	7841	0	217	673	9778	8:00	138
Delhi	2962	0	112	-298	1432	0	45	-716	2962	19:00	0
UP	12779	0	178	149	10068	320	123	130	12779	19:00	0
Uttarakhand	1659	0	-91	252	1123	0	2	307	1767	18:00	0
HP	1230	0	-12	83	756	0	85	384	1367	8:00	0
J&K	1684	421	-136	317	1509	377	-4	354	1690	10:00	422
Chandigarh	168	0	-34	-30	83	0	5	-30	172	18:00	0
Total	39763	421	290	521	28791	697	491	413	39763	19:00	421

* 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 [OG:(+ve), UG: (-ve)]

	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
A. NTPC	Singrauli STPS (5*200+2*500)	2000	1832	1958	1744	42.83	1785	42.55	0.28
	Rihand I STPS (2*500)	1000	953	854	720	18.40	767	18.16	0.24
	Rihand II STPS (2*500)	1000	963	888	786	19.50	812	19.46	0.04
	Rihand III STPS (2*500)	1000	963	892	709	19.95	831	20.03	-0.08
	Dadri I STPS (4*210)	840	815	181	181	4.14	173	4.31	-0.17
	Dadri II STPS (2*490)	980	980	403	354	9.36	390	10.32	-0.96
	Unchahar I TPS (2*210)	420	355	330	284	7.07	295	7.63	-0.56
	Unchahar II TPS (2*210)	420	402	327	287	7.63	318	8.07	-0.44
	Unchahar III TPS (1*210)	210	201	191	134	3.76	157	4.08	-0.32
	ISTPP (Jhajjhar) (3*500)	1500	1425	639	652	16.46	686	16.85	-0.40
	Dadri GPS (4*130.19+2*154.51)	830	590	156	182	3.86	161	4.08	-0.22
	Anta GPS (3*88.71+1*153.2)	419	407	252	216	5.67	236	5.73	-0.07
	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	0.02	1	0.02	0.00
	Unchahar Solar(10)	10	2	0	0	0.04	2	0.04	0.00
	Singrauli Solar(15)	15	2	0	0	0.06	2	0.05	0.01
	KHEP(4*200)	800	733	632	0	3.43	143	3.30	0.13
	Sub Total (A)	**12112**	**11248**	**7703**	**6249**	**162**	**6757**	**165**	**-2.52**
B. NPC	NAPS (2*220)	440	406	443	451	9.81	409	9.74	0.06
	RAPS- B (2*220)	440	382	426	428	9.20	383	9.17	0.03
	RAPS- C (2*220)	440	225	234	234	4.91	205	5.40	-0.49
	Sub Total (B)	**1320**	**1013**	**1103**	**1113**	**23.92**	**997**	**24.31**	**-0.39**
C. NHPC	Chamera I HPS (3*180)	540	540	547	0	2.01	84	1.80	0.21
	Chamera II HPS (3*100)	300	201	207	0	1.45	61	1.43	0.03
	Chamera III HPS (3*77)	231	231	149	0	0.76	32	0.70	0.06
	Bairasuil HPS(3*60)	180	120	122	0	0.60	25	0.57	0.03
	Salal-HPS (6*115)	690	115	300	30	3.17	132	2.76	0.41
	Tanakpur-HPS (3*31.4)	94	35	27	36	0.91	38	0.84	0.07
	Uri-I HPS (4*120)	480	75	229	22	1.98	83	1.81	0.17
	Uri-II HPS (4*60)	240	51	0	0	0.00	0	1.22	-1.22
	Dhauliganga-HPS (4*70)	280	210	215	0	1.29	54	1.20	0.09
	Dulhasti-HPS (3*130)	390	383	385	0	3.78	157	3.60	0.18
	Sewa-II HPS (3*40)	120	80	66	0	0.21	9	0.25	-0.04
	Parbati 3 (4*130)	520	209	209	0	0.62	26	0.57	0.05
	Sub Total (C)	**4065**	**2249**	**2457**	**88**	**17**	**699**	**17**	**0.03**
D.SJVNL	NJPC (6*250)	1500	1605	1596	0	8.04	335	8.06	-0.02
	Rampur HEP (6*68.67)	412	442	447	0	2.26	94	2.24	0.02
	Sub Total (D)	**1912**	**2047**	**2043**	**0**	**10.30**	**429**	**10.30**	**0.00**
E. THDC	Tehri HPS (4*250)	1000	1075	1006	0	6.30	263	6.20	0.10
	Koteshwar HPS (4*100)	400	96	182	94	2.23	93	2.19	0.04
	Sub Total (E)	**1400**	**1171**	**1188**	**94**	**8.53**	**355**	**8.39**	**0.14**
F. BBMB	Bhakra HPS (2*108+3*126+5*157)	1379	492	1018	371	12.14	506	11.82	0.32
	Dehar HPS (6*165)	990	157	495	145	3.88	162	3.78	0.10
	Pong HPS (6*66)	396	157	330	66	3.80	158	3.77	0.02
	Sub Total (F)	**2765**	**807**	**1843**	**582**	**19.81**	**826**	**19.37**	**0.45**
G. IPP(s)/JV(s)	ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	96	0	0.64	27	0.61	0.02
	KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	825	0	4.51	188	4.50	0.01
	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	-1	-0.04	-2	0.00	-0.04
	Budhil HPS(IPP) (2*35)	70	0	38	0	0.26	11	0.23	0.03
	Sub Total (G)	**1662**	**0**	**958**	**-1**	**5.68**	**237**	**5.64**	**0.04**
H. Total Regional Entities (A-G)		**25237**	**18535**	**17295**	**8126**	**247.19**	**10299**	**249.43**	**-2.25**

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	-0.15	-6
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	-0.01	0
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	0	0	-0.08	-4
	Goindwal(GVK) (2*270)	540	0	0	-0.03	-1
	Rajpura (2*700)	1400	1020	660	24.93	1039
	Talwandi Saboo (3*660)	1980	308	616	13.24	552
	Thermal (Total)	**6560**	**1328**	**1276**	37.90	**1579**
	Total Hydro	1000	326	348	8.55	356
	Wind Power	0	0	0	0.00	0
	Biomass	288	47	47	1.14	47
	Solar	560	0	0	0.20	8
	Renewable(Total)	**848**	**47**	**47**	**1.33**	**56**
	Total Punjab	**8408**	**1701**	**1671**	**47.79**	**1991**
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0
	DCRTPP (Yamuna nagar) (2*300)	600	455	461	11.14	464
	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	736	739	17.90	746
	Thermal (Total)	**4497**	**1191**	**1200**	**29.05**	**1210**
	Total Hydro	62	6	18	0.41	17
	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**	**1197**	**1218**	**29.45**	**1227**
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	937	978	22.30	929
	suratgarh TPS (6*250)	1500	675	586	15.30	638
	Chabra TPS (4*250)	1000	846	778	20.60	858
	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	160	4.00	167
	RAPS A (NPC) (1*100+1*200)	300	169	167	4.50	188
	Barsingsar (NLC) (2*125)	250	114	113	2.60	108
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	804	717	17.70	738
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	575	420	11.10	463
	Kawai(Adani) (2*660)	1320	404	405	9.60	400
	Thermal (Total)	**8876**	**4686**	**4324**	**107.70**	**4488**
	Total Hydro	550	197	169	3.70	154
	Wind power	4017	110	570	6.98	291
	Biomass	99	20	20	0.48	20
	Solar	1295	7	0	0.39	16
	Renewable/Others (Total)	5411	137	590	7.84	327
	Total Rajasthan	**14837**	**5020**	**5083**	**119.24**	**4969**
UP	Anpara TPS (3*210+2*500)	1630	707	729	16.90	704
	Obra TPS (2*50+2*94+5*200)	1194	297	304	7.10	296
	Paricha TPS (2*110+2*220+2*250)	1160	742	581	17.00	708
	Panki TPS (2*105)	210	122	68	1.30	54
	Harduaganj TPS (1*60+1*105+2*250)	665	383	311	9.20	383
	Tanda TPS (NTPC) (4*110)	440	283	225	6.42	268
	Roza TPS (IPP) (4*300)	1200	807	563	17.80	742
	Anpara-C (IPP) (2*600)	1200	1017	990	23.20	967
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	405	281	8.00	333
	Anpara-D(2*500)	1000	464	0	8.00	333
	Lalitpur TPS(3*660)	1980	545	547	13.10	546
	Bara(2*660)	1320	573	581	13.40	558
	Thermal (Total)	**12449**	**6345**	**5180**	**141.42**	**5893**
	Vishnuparyag HPS (IPP)(4*110)	440	117	112	2.70	113
	Alaknanada(4*82.5)	330	81	75	1.60	67
	Other Hydro	527	273	236	3.55	148
	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**	**7416**	**6203**	**163.67**	**6820**
Uttarakhand	Other Hydro	1250	597	195	7.59	316
	Total Gas	225	125	238	3.99	166
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.05	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	Renewable(Total)	327	0	0	0.05	2
	Total Uttarakhand	1802	722	433	11.64	485
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.02	-1
	Delhi Gas Turbine (6x30 + 3x34)	282	76	76	1.92	80
	Pragati Gas Turbine (2x104+ 1x122)	330	261	263	6.39	266
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	254	280	6.04	252
	Badarpur TPS (NTPC) (3*95+2*210)	705	-4	-4	-0.10	-4
	Thermal (Total)	**2917**	**587**	**616**	**14.22**	**593**
	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**	**587**	**616**	**14.22**	**593**

HP	Baspa HPS (IPP) (3*100)	300	0	29	1.57	66
	Malana HPS (IPP) (2*43)	86	45	0	0.36	15
	Other Hydro	372	82	58	2.47	103
	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	72	1.83	76
	Renewable(Total)	**486**	**83**	**72**	**1.83**	**76**
	Total HP	**1244**	**210**	**159**	**6.22**	**259**
J & K	Baglihar HPS (IPP) (3*150+3*150)	900	201	88	2.59	108
	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**	**339**	**181**	**5**	**223**
Total State Control Area Generation		**50078**	**17192**	**15564**	**397.59**	**16566**
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			**6046**	**6508**	**179.75**	**7490**
Total Regional Availability(Gross)		**75315**	**40533**	**30197**	**824.53**	**34355**

IV. Total Hydro Generation:

Regional Entities Hydro	**12234**	**9084**	**764**	**64.31**	**2679**
State Control Area Hydro	**7163**	**2271**	**1731**	**39.68**	**1822**
Total Regional Hydro	**19397**	**11354**	**2495**	**103.99**	**4501**

V. Total Renewable Generation:

Regional Entities Renewable	**30**	**0**	**0**	**0.12**	**5**
State Control Area Renewable	**7356**	**267**	**709**	**11.06**	**461**
Total Regional Renewable	**7386**	**267**	**709**	**11.17**	**465**

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

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	MU
Vindhychal(HVDC B/B)	-500	-500	0	500	0.00	12.12	-12.12
765 KV Gwalior-Agra (D/C)	1801	1517	2324	0	46.38	0.00	46.38
400 KV Zerda-Kankroli	-126	-124	61	154	0.00	1.47	-1.47
400 KV Zerda-Bhinmal	-57	-53	190	132	0.53	0.00	0.53
220 KV Auraiya-Malanpur	-103	-110	0	131	0.00	2.17	-2.17
220 KV Badod-Kota/Morak	-46	-48	19	144	0.00	1.31	-1.31
Mundra-Mohindergarh(HVDC Bipole)	1704	1298	1705	0.00	36.02	0.00	36.02
400 KV RAPPC-Sujalpur	360	270	420	0	6.92	0.00	6.92
400 KV Vindhyachal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	660	1413	1830	0	36.85	0.00	36.85
Sub Total WR	**3693**	**3663**			**126.70**	**17.06**	**109.64**
400 kV Sasaram - Varanasi	159	148	168	0	5.31	0.00	5.31
400 kV Sasaram - Allahabad	14	9	15	19	0.00	0.09	-0.09
400 KV MZP- GKP (D/C)	-59	152	321	59	2.78	0.00	2.78
400 KV Patna-Balia(D/C) X 2	627	602	699	0	14.84	0.00	14.84
400 KV B'Sharif-Balia (D/C)	-22	69	175	0	1.55	0.00	1.55
765 KV Gaya-Balia	186	263	328	0	6.39	0.00	6.39
765 KV Gaya-Varanasi (D/C)	291	436	698	0	11.87	0.00	11.87
220 KV Pusauli-Sahupuri	105	135	177	0	3.36	0.00	3.36
132 KV K'nasa-Sahupuri	0	-24	0	32	0.00	0.46	-0.46
132 KV Son Ngr-Rihand	-43	-25	0	43	0.00	0.74	-0.74
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-200	-105	31	200	0.00	2.15	-2.15
400 KV Barh -GKP (D/C)	488	452	542	0	11.12	0.00	11.12
400 kV B'Sharif - Varanasi (D/C)	107	33	141	107	0.49	0.00	0.49
Sub Total ER	**1653**	**2145**			**57.71**	**3.44**	**54.27**
+/- 800 KV BiswanathCharialli-Agra	700	700	700	0.00	15.84	0.00	15.84
Sub Total NER	**700**	**700**			**15.84**	**0.00**	**15.84**
Total IR Exch	**6046**	**6508**			**200.25**	**20.50**	**179.75**

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
44.42	1.39	45.81	1.23	-7.68	10.40	13.82	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
57.43	112.26	169.70	70.11	109.64	179.75	12.67	-2.62	10.05

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

Element	Peak(19:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy
	MW	MW	Import	Export	Import	Export	MU
132 KV Tanakpur - Mahendarnagar	-8	0	0	27	0	0	-0.13

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	7.95	48.24	70.30	17.93	3.65	0.25	0.00

<---------- Frequency (Hz) ---------->				Average	Frequency	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum		Frequency	Variation		MAX	MIN	
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)	
50.27	22.01	49.80	5.40	50.00	0.041	0.064	0.00	0.00	29.70

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	12:52	402	5:30	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	13:02	403	17:56	0.0	0.0	4.3	0.0	4.3
Bareilly(PG)400kV	400	421	0:04	395	10:49	0.0	0.0	1.7	0.0	1.7
Kanpur	400	419	0:45	398	10:49	0.0	0.0	0.0	0.0	0.0
Dadri	400	425	1:58	125	10:52	2.6	2.6	25.4	0.0	28.0
Ballabhgarh	400	432	0:49	404	11:21	0.0	0.0	46.6	12.7	46.6
Bawana	400	429	1:58	409	11:21	0.0	0.0	42.3	0.0	42.3
Bassi	400	425	19:42	378	10:50	0.0	0.1	5.8	0.0	5.8
Hissar	400	423	1:58	403	6:25	0.0	0.0	13.4	0.0	13.4
Moga	400	426	0:04	407	11:20	0.0	0.0	28.1	0.0	28.1
Abdullapur	400	427	21:58	408	5:47	0.0	0.0	36.3	0.0	36.3
Nalagarh	400	436	2:02	412	6:55	0.0	0.0	53.5	25.7	53.5
Kishenpur	400	423	0:05	398	6:50	0.0	0.0	12.8	0.0	12.8
Wagoora	400	408	13:04	370	18:10	15.9	64.8	0.0	0.0	15.9
Amritsar	400	434	1:57	411	11:21	0.0	0.0	48.1	18.2	48.1
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	428	23:21	407	11:20	0.0	0.0	24.0	0.0	24.0
Rishikesh	400	418	0:03	396	6:30	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	778	0:50	736	10:49	0.0	0.0	0.0	0.0	0.0
Balia	765	792	0:40	766	6:29	0.0	0.0	0.0	0.0	0.0
Moga	765	808	0:03	773	11:41	0.0	0.0	18.2	0.0	18.2
Agra	765	793	19:42	753	6:28	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	809	1:59	773	11:21	0.0	0.0	28.5	0.0	28.5
Unnao	765	773	0:48	743	10:54	0.0	0.0	0.0	0.0	0.0
Lucknow	765	803	0:50	772	10:54	0.0	0.0	2.2	0.0	2.2
Meerut	765	810	20:02	758	6:38	0.0	0.0	5.5	0.0	5.5
Jhatikara	765	808	1:58	770	11:10	0.0	0.0	21.0	0.0	21.0
Bareilly 765 kV	765	796	0:50	759	10:56	0.0	0.0	0.0	0.0	0.0
Anta	765	803	1:58	769	9:43	0.0	0.0	11.0	0.0	11.0
Phagi	765	805	20:03	710	10:52	0.1	0.1	1.3	0.0	1.4

Note : "0" in Max / Min Col -> Telemetry Outage

IX. Reservior Parameters:

Name of Reservior	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	496.89	971.87	507.88	1440.82	183.89	348.18
Pong	426.72	384.05	412.80	588.94	417.10	755.83	56.15	239.99
Tehri	829.79	740.04	820.00	1002.27	814.55	893.26	44.13	139.00
Koteshwar	612.50	598.50	610.65	4.80	610.78	4.97	139.00	147.19
Chamera-I	760.00	748.75	759.61	0.00	0.00	0.00	47.71	53.86
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	511.16	2.95	507.51	4.35	61.78	122.99

*** 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	1	0	-451	0	0	-13.46	0.00	-13.46
Delhi	-108	-607	0	-231	-67	0	-6.35	-3.22	-9.57
Haryana	-596	358	0	-311	346	0	-10.04	7.94	-2.10
HP	292	92	0	199	-116	0	7.74	-1.48	6.26
J&K	354	0	0	331	-15	0	7.86	-0.16	7.69
CHD	-30	0	0	-30	0	0	-0.36	0.06	-0.30
Rajasthan	201	472	0	-7	472	0	8.36	16.07	24.43
UP	130	0	0	-43	191	0	-5.17	2.44	-2.74
Uttarakhand	146	160	0	178	74	0	3.71	4.74	8.45
Total	**-63**	**476**	**0**	**-365**	**886**	**0**	**-7.72**	**26.40**	**18.67**

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-451	-714	1	0	0	0
Delhi	-108	-422	231	-613	0	0
Haryana	-304	-633	392	-164	0	0
HP	439	199	126	-591	0	0
J&K	354	305	0	-15	0	0
CHD	0	-30	0	0	14	-30
Rajasthan	659	-7	1385	456	0	0
UP	167	-633	774	-100	0	0
Uttarakhand	178	146	410	-45	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	**2.08%**

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand - Dadri	**0.00%**

XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	3	30
Haryana	3	21
Rajasthan	2	16
Delhi	7	10
UP	0	11
Uttarakhand	4	35
HP	3	35
J & K	3	21
Chandigarh	4	30

XIII.System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 17.11.2016 :
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 : 17.11.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER