

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सार्वजनिक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 07.11.2016

Date of Reporting : 08.11.2016



I. Regional Availability/Demand:

Demand Met	Evening Peak (19:00 Hrs) MW			Demand Met	Off Peak (03:00 Hrs) MW			Day Energy (Net MU)	
	Shortage	Requirement	Freq* (Hz)		Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
40017	489	40506	50.10	29533	343	29876	50.08	832.6	12.82

* 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:

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages *
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	44.52	9.68	0.99	55.19	42.34	42.82	0.48	98.01	0.00
Haryana	34.04	0.60	0.00	34.64	70.92	70.71	-0.21	105.35	0.00
Rajasthan	117.73	4.79	5.63	128.15	73.77	77.15	3.38	205.30	3.62
Delhi	6.72		0.00	6.72	52.96	53.69	0.73	60.41	0.00
UP	174.89	11.50	0.00	186.39	82.28	80.04	-2.23	266.43	0.00
Uttarakhand		8.39	0.00	12.72	19.56	20.17	0.60	32.89	0.00
HP		4.37	2.35	6.72	17.42	17.72	0.30	24.44	0.08
J & K		7.04	0.00	7.04	33.35	29.43	-3.92	36.47	9.12
Chandigarh				0.00	3.39	3.28	-0.11	3.28	0.00
Total	377.90	46.37	8.97	437.56	395.98	395.01	-0.97	832.57	12.82

* 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 (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	4768	0	-50	-347	3037	0	30	-347	4768	19:00	0
Haryana	6106	0	-257	33	2901	0	-42	-337	6106	19:00	0
Rajasthan	9098	0	197	565	7958	0	254	739	9622	8:00	421
Delhi	3197	0	-21	-215	1789	0	207	-505	3197	19:00	0
UP	11924	40	-510	-214	10603	0	-224	114	12466	7:00	0
Uttarakhand	1706	0	-102	159	1067	0	-16	165	1731	18:00	0
HP	1243	0	25	-93	714	0	-50	318	1367	8:00	0
J&K	1798	449	-145	431	1371	343	-159	352	1798	19:00	449
Chandigarh	178	0	-35	-30	92	0	-2	-30	178	19:00	0
Total	40017	489	-898	287	29533	343	-2	470	40017	19:00	489

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

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	1833	1891	1739	42.09	1754	41.59		0.49
Rihand I STPS (2*500)	1000	870	894	867	18.90	787	18.96		-0.06
Rihand II STPS (2*500)	1000	963	920	813	21.02	876	20.56		0.45
Rihand III STPS (2*500)	1000	963	952	822	20.93	872	20.67		0.27
Dadri I STPS (4*210)	840	815	142	143	3.90	163	3.91		-0.01
Dadri II STPS (2*490)	980	980	686	688	16.93	706	17.81		-0.88
Unchahar I TPS (2*210)	420	355	303	260	6.82	284	6.79		0.03
Unchahar II TPS (2*210)	420	402	326	298	7.54	314	7.67		-0.13
Unchahar III TPS (1*210)	210	201	166	141	3.72	155	3.86		-0.13
ISTPP (Jhajjar) (3*500)	1500	1425	289	306	7.22	301	7.33		-0.11
Dadri GPS (4*130.19+2*154.51)	830	796	430	472	11.30	471	11.88		-0.58
Anta GPS (3*88.71+1*153.2)	419	393	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	1	0.04		-0.01
Singrauli Solar(15)	15	2	0	0	0.01	0	0.05		-0.05
KHEP(4*200)	800	860	776	0	3.48	145	3.20		0.28
Sub Total (A)	12112	11485	7775	6549	164	6829	164		-0.43
B. NPC									
NAPS (2*220)	440	404	438	443	9.69	404	9.70		-0.01
RAPS- B (2*220)	440	387	425	432	9.19	383	9.29		-0.10
RAPS- C (2*220)	440	214	211	0	2.39	100	5.14		-2.75
Sub Total (B)	1320	1005	1074	875	21.26	886	24.12		-2.86
C. NHPC									
Chamera I HPS (3*180)	540	360	367	0	2.20	92	2.00		0.20
Chamera II HPS (3*100)	300	301	307	0	1.66	69	1.50		0.16
Chamera III HPS (3*77)	231	231	224	0	0.93	39	0.80		0.13
Bairasul HPS(3*60)	180	179	177	0	0.66	27	0.64		0.02
Salal-HPS (6*115)	690	118	230	180	3.44	143	2.83		0.62
Tanakpur-HPS (3*31.4)	94	34	30	45	1.05	44	0.83		0.23
Uri-I HPS (4*120)	480	78	227	21	2.23	93	1.87		0.36
Uri-II HPS (4*60)	240	55	122	78	1.43	59	1.31		0.11
Dhauliganga-HPS (4*70)	280	280	284	0	1.50	63	1.37		0.14
Dulhasi-HPS (3*130)	390	383	379	0	4.35	181	4.00		0.35
Sewa-II HPS (3*40)	120	119	119	0	0.36	15	0.36		0.00
Parbati 3 (4*130)	520	260	261	0	0.70	29	0.65		0.05
Sub Total (C)	4065	2397	2727	324	21	855	18		2.37
D.SJVNL									
NJPC (6*250)	1500	1605	1453	0	9.88	412	9.68		0.20
Rampur HEP (6*68.67)	412	442	443	0	2.82	117	2.70		0.12
Sub Total (D)	1912	2047	1896	0	12.70	529	12.38		0.32
E. THDC									
Tehri HPS (4*250)	1000	1075	780	0	7.01	292	6.80		0.21
Koteshwar HPS (4*100)	400	96	178	90	2.35	98	2.31		0.04
Sub Total (E)	1400	1171	958	90	9.36	390	9.11		0.25
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	533	1058	397	13.02	543	12.80		0.22
Dehar HPS (6*165)	990	184	495	140	4.50	187	4.43		0.07
Pong HPS (6*66)	396	204	330	132	4.86	203	4.89		-0.02
Sub Total (F)	2765	921	1883	669	22.38	932	22.12		0.26
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	0	0	0.72	30	0.68		0.05
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	825	0	5.52	230	5.22		0.30
Malana Stg-II HPS (2*50)	100	0	0	0	0.34	14	0.33		0.01
Shree Cement TPS (2*150)	300	0	-2	-1	-0.04	-2	0.00		-0.04
Budhil HPS(IPP) (2*35)	70	0	38	0	0.30	13	0.30		0.00
Sub Total (G)	1662	0	861	-1	6.84	285	6.53		0.32
H. Total Regional Entities (A-G)	25237	19026	17174	8507	256.96	10707	256.74		0.22

Diversity: 1.03

UI (OG: +ve), UG: (-ve)

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	-0.19	-8	
	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	-0.09	-4	
	Goindwal(GVK) (2*270)	540	0	0	-0.02	-1	
	Rajpura (2*700)	1400	1120	660	25.85	1077	
	Talwandi Saboo (3*660)	1980	616	616	19.01	792	
	Thermal (Total)	6560	1736	1276	44.52	1855	
	Total Hydro	1000	406	402	9.68	403	
	Wind Power	0	0	0	0.00	0	
	Biomass	288	37	37	0.89	37	
	Solar	560	0	0	0.10	4	
	Renewable(Total)	848	37	37	0.99	41	
	Total Punjab	8408	2179	1715	55.19	2300	
	Haryana	Panipat TPS (2*210+2*250)	920	210	204	4.90	204
		DCRTPP (Yamuna nagar) (2*300)	600	537	457	11.36	473
Faridabad GPS (NTPC)(2*137.75+1*1156)		432	0	0	0.00	0	
RGTPP (khedar) (IPP) (2*600)		1200	949	751	17.77	741	
Magnum Diesel (IPP)		25	0	0	0.00	0	
Jhajjar(CLP) (2*660)		1320	0	0	0.00	0	
Thermal (Total)		4497	1696	1412	34.04	1418	
Total Hydro		62	33	22	0.60	25	
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	1729	1434	34.64	1443	
Rajasthan		kota TPS (2*110+2*195+3*210)	1240	1007	999	23.17	965
		suratgarh TPS (6*250)	1500	912	773	20.71	863
	Chabra TPS (4*250)	1000	678	835	20.29	845	
	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	158	155	3.89	162	
	RAPS A (NPC) (1*100+1*200)	300	164	150	4.08	170	
	Barsingar (NLC) (2*125)	250	226	227	5.21	217	
	Giral LTPS (2*125)	250	0	0	0.00	0	
	Rajwest LTPS (IPP) (8*135)	1080	937	940	21.69	904	
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0	
	Kalisindh Thermal(2*600)	1200	464	170	4.57	191	
	Kawai(Adani) (2*660)	1320	604	604	14.12	588	
	Thermal (Total)	8876	5150	4853	117.73	4905	
	Total Hydro	550	210	192	4.79	200	
	Wind power	4017	89	143	2.75	115	
	Biomass	99	20	20	0.47	20	
	Solar	1295	0	0	2.40	100	
	Renewable/Others (Total)	5411	109	163	5.63	235	
	Total Rajasthan	14837	5469	5208	128.15	5340	
UP	Anpara TPS (3*210+2*500)	1630	1202	1229	28.63	1193	
	Obra TPS (2*50+2*94+5*200)	1194	329	336	7.57	316	
	Paricha TPS (2*110+2*220+2*250)	1160	580	629	15.29	637	
	Panki TPS (2*105)	210	135	135	3.30	138	
	Harduaganj TPS (1*60+1*105+2*250)	665	311	309	8.20	342	
	Tanda TPS (NTPC) (4*110)	440	206	207	5.60	233	
	Roza TPS (IPP) (4*300)	1200	756	747	20.43	851	
	Anpara-C (IPP) (2*600)	1200	977	684	21.28	887	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	283	283	6.96	290	
	Anpara-D(2*500)	1000	455	472	10.35	431	
	Lalitpur TPS(3*660)	1980	892	896	21.46	894	
	Bara(2*660)	1320	1062	978	23.42	976	
	Thermal (Total)	12449	7188	6905	172.49	7187	
	Vishnuparyag HPS (IPP)(4*110)	440	127	122	6.96	290	
	Alaknada(4*82.5)	330	83	83	3.30	138	
	Other Hydro	527	38	46	1.24	52	
	Cogeneration	981	100	100	2.40	100	
	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	7536	7256	186.39	7766	
	Uttarakhand	Other Hydro	1250	597	266	8.39	350
Total Gas		225	178	186	4.27	178	
Wind Power		0	0	0	0.00	0	
Biomass		127	0	0	0.00	0	
Solar		20	0	0	0.06	2	
Small Hydro (< 25 MW)		180	0	0	0.00	0	
Renewable(Total)		327	0	0	0.06	2	
Total Uttarakhand		1802	775	452	12.72	530	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0	
	Delhi Gas Turbine (6x30 + 3x34)	282	79	81	1.89	79	
	Pragati Gas Turbine (2x104+ 1x122)	330	265	147	4.90	204	
	Rithala GPS (3*36)	95	0	0	0.00	0	
	Bawana GPS (4*216+2*253)	1370	0	0	-0.06	-3	
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0	
	Thermal (Total)	2917	344	228	6.72	280	
	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	344	228	6.72	280		

HP	Baspa HPS (IPP) (3*100)	300	0	0	1.56	65
	Malana HPS (IPP) (2*43)	86	44	0	0.39	16
	Other Hydro	372	91	96	2.43	101
	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	107	94	2.35	98
	Renewable(Total)	486	107	94	2.35	98
	Total HP	1244	242	191	6.72	280
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	251	143	4.27
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	389	236	7	293
Total State Control Area Generation		50078	18663	16720	437.56	18232
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		5394	5795	154.00	6417	
Total Regional Availability(Gross)	75315	41232	31021	848.52	35355	

IV. Total Hydro Generation:

Regional Entities Hydro	12234	9065	1083	75.00	3125
State Control Area Hydro	7163	2303	1746	48.72	2210
Total Regional Hydro	19397	11368	2829	123.72	5335

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.05	2
State Control Area Renewable	7356	253	294	9.02	376
Total Regional Renewable	7386	253	294	9.08	378

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	
Vindhyhall(HVDC B/B)	-500	-500	0	500	0.00	12.13	-12.13
765 KV Gwalior-Agra (D/C)	1361	1600	2127	0	38.14	0.00	38.14
400 KV Zerda-Kankroli	-51	-73	0	169	0.00	1.81	-1.81
400 KV Zerda-Bhinmal	-40	-91	38	209	0.00	1.72	-1.72
220 KV Auraiya-Malanpur	-113	-132	0	135	0.00	2.51	-2.51
220 KV Badod-Kota/Morak	-64	-38	44	94	0.56	0.00	0.56
Mundra-Mohindergarh(HVDC Bipole)	1800	1800	1806	0.00	42.82	0.00	42.82
400 KV Vindhyachal - Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1204	1119	1165	0	33.75	0.00	33.75
Sub Total WR	3597	3685			115.26	18.17	97.10
Pusauli Bypass/HVDC	-105	-40	150	260	3.65	4.55	-0.90
400 KV MZP- GKP (D/C)	12	120	354	0	3.31	0.00	3.31
400 KV Patna-Balia(D/C) X 2	517	462	725	0	13.09	0.00	13.09
400 KV B Sharif-Balia (D/C)	-68	-22	147	0	1.09	0.00	1.09
765 KV Gaya-Balia	125	221	247	0	4.19	0.00	4.19
765 KV Gaya-Varanasi (D/C)	174	300	599	0	8.52	0.00	8.52
220 KV Pusauli-Sahupuri	194	172	200	0	3.74	0.00	3.74
132 KV K'nasa-Sahupuri	-28	-26	0	28	0.00	0.58	-0.58
132 KV Son Ngr-Rihand	-41	-45	0	45	0.00	0.90	-0.90
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-170	-134	127	170	0.00	0.95	-0.95
400 KV Barh -GKP (D/C)	400	410	476	0	9.49	0.00	9.49
400 kV B Sharif - Varanasi (D/C)	104	14	199	163	0.43	0.00	0.43
Sub Total ER	1114	1432			47.50	6.97	40.53
+/- 800 KV BiswanathChariali-Agra	683	678	685	0.00	16.37	0.00	16.37
Sub Total NER	683	678			16.37	0.00	16.37
Total IR Exch	5394	5795			179.14	25.14	154.00

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
41.28	1.84	43.13	0.89	-12.08	6.30	15.83	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
50.32	107.05	157.37	56.90	97.10	154.00	6.58	-9.95	-3.37

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	-22	0	0	26	0	0	-0.06

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	0.37	14.40	61.59	69.65	12.65	3.36	0.03	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	18.01	49.77	7.15	49.98	0.055	0.071	50.15	49.94	30.35

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	409	2:00	401	18:09	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	419	23:21	400	17:41	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	420	2:01	397	10:15	0.0	0.0	0.0	0.0	0.0
Kanpur	400	418	20:54	401	11:25	0.0	0.0	0.0	0.0	0.0
Dadri	400	426	2:00	403	11:39	0.0	0.0	23.7	0.0	23.7
Ballabgarh	400	433	2:00	405	11:43	0.0	0.0	46.3	7.8	46.3
Bawana	400	429	2:01	404	11:39	0.0	0.0	35.3	0.0	35.3
Bassi	400	422	20:54	392	6:25	0.0	0.0	2.0	0.0	2.0
Hissar	400	423	20:58	400	11:38	0.0	0.0	9.0	0.0	9.0
Moga	400	424	2:01	402	11:25	0.0	0.0	22.0	0.0	22.0
Abdullapur	400	428	2:01	406	11:39	0.0	0.0	24.9	0.0	24.9
Nalagarh	400	436	1:59	406	11:23	0.0	0.0	48.5	17.1	48.5
Kishenpur	400	425	2:20	392	18:12	0.0	0.0	17.4	0.0	17.4
Wagoora	400	405	3:20	361	18:13	43.1	73.1	0.0	0.0	43.1
Amritsar	400	431	1:59	404	11:39	0.0	0.0	39.8	0.5	39.8
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	427	1:49	399	9:24	0.0	0.0	42.1	0.0	42.1
Rishikesh	400	417	1:57	390	11:20	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	20:57	742	6:25	0.0	0.0	0.0	0.0	0.0
Balia	765	788	23:23	764	11:40	0.0	0.0	0.0	0.0	0.0
Moga	765	805	20:56	764	11:39	0.0	0.0	9.5	0.0	9.5
Agra	765	790	20:56	752	6:42	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	809	20:45	773	11:22	0.0	0.0	24.7	0.0	24.7
Unnao	765	772	23:59	740	11:22	0.0	1.4	0.0	0.0	0.0
Lucknow	765	799	23:52	767	11:42	0.0	0.0	0.0	0.0	0.0
Meerut	765	803	21:00	757	11:39	0.0	0.0	1.3	0.0	1.3
Jhatikara	765	806	20:57	765	11:41	0.0	0.0	9.8	0.0	9.8
Bareilly 765 kV	765	793	21:58	752	11:40	0.0	0.0	0.0	0.0	0.0
Anta	765	806	20:44	764	6:30	0.0	0.0	11.6	0.0	11.6
Phagi	765	802	20:52	758	6:26	0.0	0.0	4.2	0.0	4.2

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	498.02	1018.16	508.85	1485.27	190.86	368.88
Pong	426.72	384.05	413.76	622.40	418.06	807.91	79.91	304.55
Tehri	829.79	740.04	821.75	1039.23	816.30	928.25	55.95	153.00
Koteswar	612.50	598.50	611.30	5.20	611.76	5.46	153.00	154.79
Chamera-I	760.00	748.75	759.71	0.00	0.00	0.00	60.21	59.33
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	512.39	3.00	509.68	4.03	70.01	120.75

* 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	-347	1	0	-347	0	0	-10.96	0.00	-10.96
Delhi	-133	-372	0	-231	15	0	-6.48	-0.56	-7.04
Haryana	-609	272	0	-314	346	0	-10.08	4.02	-6.06
HP	244	74	0	72	-165	0	6.25	-1.64	4.61
J&K	352	0	0	446	-15	0	9.53	-0.06	9.47
CHD	-30	0	0	-30	0	0	-0.36	0.03	-0.33
Rajasthan	-7	746	0	-7	572	0	4.42	21.00	25.42
UP	114	0	0	-114	-100	0	-8.20	-0.96	-9.16
Uttarakhand	147	19	0	179	-20	0	3.78	3.08	6.86
Total	-270	740	0	-347	634	0	-12.10	24.92	12.82

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-347	-610	1	0	0	0
Delhi	-114	-421	287	-387	0	0
Haryana	-314	-628	380	-384	0	0
HP	451	72	74	-588	0	0
J&K	446	349	0	-15	0	0
CHD	0	-30	0	0	10	-30
Rajasthan	452	-7	1819	552	0	0
UP	170	-913	0	-100	0	0
Uttarakhand	179	147	404	-108	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	16
Haryana	2	31
Rajasthan	1	15
Delhi	3	23
UP	1	13
Uttarakhand	4	30
HP	3	29
J & K	4	31
Chandigarh	3	26

XIII. System Constraints:**XIV. Grid Disturbance / Any Other Significant Event:****XV. Weather Conditions For 07.11.2016 :**
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 : 07.11.2016

परी प्रभारी अभियंता / SHIFT CHARGE ENGINEER