

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पारदर्शिता की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 08.12.2016
Date of Reporting : 09.12.2016



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
41181	698	41879	50.05	28446	350	28796	50.06	821.64	11.02

* 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 * (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	43.00	8.94	0.35	52.29	48.27	47.94	-0.32	100.23	0.00
Haryana	41.63	0.46	0.00	42.09	74.44	72.99	-1.45	115.08	0.00
Rajasthan	120.26	4.71	5.00	129.97	73.46	72.92	-0.54	202.89	0.56
Delhi	14.87		0.00	14.87	44.06	41.72	-2.35	56.58	0.01
UP	163.07	7.82	0.00	170.89	78.90	80.15	1.25	251.04	1.52
Uttarakhand		7.36	0.00	12.49	19.90	19.83	-0.07	32.32	0.00
HP		3.65	1.44	5.09	19.35	19.38	0.03	24.47	0.00
J & K		4.16	0.00	4.16	36.51	31.54	-4.97	35.70	8.93
Chandigarh				0.00	3.53	3.32	-0.21	3.32	0.00
Total	382.82	37.11	6.80	431.85	398.41	389.79	-8.62	821.64	11.02

* Shortage furnished by the respective constituent's 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	5526	0	-9	-542	3433	0	-297	-459	5526	19:00	0
Haryana	6415	0	-73	-228	3267	0	25	-513	6415	19:00	0
Rajasthan	8936	0	-10	214	7852	0	14	301	10072	8:00	0
Delhi	2987	0	-67	-507	1342	0	-215	-681	3144	11:00	0
UP	12510	275	-57	-200	9253	0	-527	126	12510	19:00	275
Uttarakhand	1687	0	-66	242	1085	0	9	422	1716	7:00	0
HP	1251	0	22	291	730	0	-20	457	1368	8:00	0
J&K	1693	423	-181	751	1400	350	-148	769	1693	7:00	423
Chandigarh	177	0	-41	0	85	0	-3	0	192	8:00	0
Total	41181	698	-483	20	28446	350	-1163	423	41181	19:00	698

* 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	1840	1958	1555	42.14	1756	41.19	0.95	
Rihand I STPS (2*500)	1000	943	1009	756	20.66	861	20.31	0.35	
Rihand II STPS (2*500)	1000	948	985	729	21.17	882	20.63	0.54	
Rihand III STPS (2*500)	1000	948	995	725	21.02	876	20.46	0.56	
Dadri I STPS (4*210)	840	815	427	340	7.32	305	7.65	-0.33	
Dadri II STPS (2*490)	980	980	944	690	18.10	754	19.12	-1.03	
Unchahar I TPS (2*210)	420	360	333	274	6.89	287	7.03	-0.14	
Unchahar II TPS (2*210)	420	404	386	300	7.56	315	7.80	-0.24	
Unchahar III TPS (1*210)	210	202	194	154	3.89	162	4.03	-0.14	
ISTPP (Jhajjhar) (3*500)	1500	1440	1021	917	21.35	890	21.14	0.21	
Dadri GPS (4*130.19+2*154.51)	830	784	257	234	6.04	252	7.82	-1.78	
Anta GPS (3*88.71+1*153.2)	419	412	0	0	0.00	0	0.31	-0.31	
Auraiya GPS (4*111.19+2*109.30)	663	625	0	0	0.00	0	0.12	-0.12	
Dadri Solar(5)	5	0	0	0	0.01	0	0.01	0.00	
Unchahar Solar(10)	10	1	0	0	0.02	1	0.02	0.00	
Singrauli Solar(15)	15	2	0	0	0.01	1	0.04	-0.02	
KHEP(4*200)	800	870	860	530	2.75	115	2.61	0.14	
Sub Total (A)	12112	11573	9369	7204	179	7455	180	-1.36	
B. NPC									
NAPS (2*220)	440	413	455	456	9.98	416	9.91	0.07	
RAPS- B (2*220)	440	382	423	428	9.19	383	9.17	0.02	
RAPS- C (2*220)	440	218	237	238	5.01	209	5.23	-0.23	
Sub Total (B)	1320	1013	1115	1122	24.17	1007	24.31	-0.14	
C. NHPC									
Chamera I HPS (3*180)	540	360	278	0	1.40	58	1.20	0.20	
Chamera II HPS (3*100)	300	301	283	0	1.27	53	1.05	0.22	
Chamera III HPS (3*77)	231	231	148	0	0.62	26	0.55	0.07	
Bairasuli HPS(3*60)	180	120	122	0	0.48	20	0.43	0.05	
Salal-HPS (6*115)	690	81	230	64	2.34	97	1.94	0.40	
Tanakpur-HPS (3*31.4)	94	23	31	32	0.74	31	0.56	0.18	
Uri-I HPS (4*120)	480	74	229	24	1.88	78	1.78	0.09	
Uri-II HPS (4*60)	240	53	121	39	1.32	55	1.27	0.06	
Dhauliganga-HPS (4*70)	280	249	204	0	1.17	49	1.05	0.12	
Dulhasti-HPS (3*130)	390	383	402	0	3.26	136	3.00	0.26	
Sewa-II HPS (3*40)	120	80	34	0	0.24	10	0.25	-0.01	
Parbati 3 (4*130)	520	200	215	0	0.65	27	0.60	0.05	
Sub Total (C)	4065	2155	2297	159	15	640	14	1.69	
D.SJVNL									
NJPC (6*250)	1500	1610	1606	0	7.35	306	7.30	0.05	
Rampur HEP (6*88.67)	412	442	447	0	2.04	85	2.03	0.01	
Sub Total (D)	1912	2052	2053	0	9.39	391	9.33	0.06	
E. THDC									
Tehri HPS (4*250)	1000	1067	1027	0	6.96	290	6.70	0.26	
Koteshwar HPS (4*100)	400	100	204	90	2.49	104	2.41	0.08	
Sub Total (E)	1400	1167	1231	90	9.44	394	9.11	0.33	
F. BBMB									
Bhakra HPS (2*108+3*126+5*157)	1379	627	860	386	15.11	630	15.06	0.05	
Dehar HPS (6*165)	990	122	495	0	2.98	124	2.93	0.05	
Pong HPS (6*66)	396	205	396	66	4.87	203	4.91	-0.04	
Sub Total (F)	2765	954	1751	452	22.96	957	22.90	0.06	
G. IPP(s)/JV(s)									
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	52	0	0.53	22	0.51	0.02	
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	4.14	172	4.03	0.11	
Malana Stg-II HPS (2*50)	100	0	0	0	0.00	0	0.00	0.00	
Shree Cement TPS (2*150)	300	0	0	0	0.00	0	0.00	0.00	
Budhil HPS(IPP) (2*35)	70	0	0	0	0.19	8	0.15	0.03	
Sub Total (G)	1662	0	682	0	4.85	202	4.69	0.16	
H. Total Regional Entities (A-G)	25237	18915	18498	9028	265.11	11046	264.30	0.81	

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	530	530	12.49	520
	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	942	850	19.68	820
	Goidwal(GVK) (2*270)	540	0	0	-0.02	-1

	Rajpura (2*700)	1400	660	0	7.58	316
	Talwandi Saboo (3*660)	1980	170	616	3.30	138
	Thermal (Total)	6560	2302	1996	43.00	1792
	Total Hydro	1000	403	366	8.94	372
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.30	12
	Solar	560	0	0	0.06	2
	Renewable(Total)	848	0	0	0.35	15
	Total Punjab	8408	2705	2362	52.29	2179
Haryana	Panipat TPS (2*210+2*250)	920	207	201	5.00	209
	DCRTPP (Yamuna nagar) (2*300)	600	549	465	11.95	498
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	185	152	4.17	174
	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	1190	746	20.50	854
	Thermal (Total)	4497	2131	1564	41.63	1734
	Total Hydro	62	10	10	0.46	19
	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	2141	1574	42.09	1754
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1132	1161	25.76	1073
	suratgarh TPS (6*250)	1500	447	451	10.24	426
	Chabra TPS (4*250)	1000	827	872	21.63	901
	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	180	142	4.43	184
	RAPS A (NPC) (1*100+1*200)	300	164	166	4.11	171
	Barsingar (NLC) (2*125)	250	106	107	2.44	102
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	824	829	19.08	795
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	912	544	21.78	908
	Kawai(Adani) (2*660)	1320	453	454	10.79	450
	Thermal (Total)	8876	5045	4726	120.26	5011
	Total Hydro	550	172	217	4.71	196
	Wind power	4017	185	76	4.43	185
	Biomass	99	13	13	0.31	13
	Solar	1295	5	0	0.27	11
	Renewable/Others (Total)	5411	203	89	5.00	209
	Total Rajasthan	14837	5420	5032	129.97	5415
UP	Anpara TPS (3*210+2*500)	1630	923	228	23.38	974
	Obra TPS (2*50+2*94+5*200)	1194	499	419	11.10	463
	Paricha TPS (2*110+2*220+2*250)	1160	834	578	15.90	663
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	439	314	8.80	367
	Tanda TPS (NTPC) (4*110)	440	284	201	5.98	249
	Roza TPS (IPP) (4*300)	1200	1058	756	22.09	921
	Anpara-C (IPP) (2*600)	1200	635	630	16.14	672
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	81	58	1.56	65
	Anpara-D(2*500)	1000	560	151	14.99	624
	Lalitpur TPS(3*660)	1980	296	235	6.34	264
	Bara(2*660)	1320	880	397	17.59	733
	Thermal (Total)	12449	6489	3967	143.87	5995
	Vishnuparyag HPS (IPP)(4*110)	440	103	98	2.44	102
	Alakanada(4*82.5)	330	84	0	1.33	55
	Other Hydro	527	228	121	4.06	169
	Cogeneration	981	800	800	19.20	800
	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	7704	4986	170.89	7121	
Uttarakhand	Other Hydro	1250	529	166	7.36	307
	Total Gas	225	200	184	5.09	212
	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	729	350	12.49	520	
Delhi	Rajghat TPS (2*67.5)	135	0	0	0.00	0
	Delhi Gas Turbine (6x30 + 3x34)	282	69	68	1.94	81
	Pragati Gas Turbine (2x104+ 1x122)	330	264	262	6.40	267
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	250	280	6.53	272
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	Thermal (Total)	2917	583	610	14.87	620
	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	583	610	14.87	620
HP	Baspa HPS (IPP) (3*100)	300	0	0	1.20	50
	Malana HPS (IPP) (2*43)	86	0	0	0.29	12
	Other Hydro	372	131	29	2.16	90
	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	67	57	1.44	60
	Renewable(Total)	486	67	57	1.44	60
	Total HP	1244	198	85	5.09	212
	J & K	Baqilhar HPS (IPP) (3*150+3*150)	900	126	126	3.02
Other Hydro/IPP(including 98 MW Small Hydro)		308	85	23	1.14	47
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	211	149	4	173	

Total State Control Area Generation	50078	19691	15149	431.85	17994
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		4583	3691	174.53	7272
Total Regional Availability(Gross)	75315	42772	27867	871.50	36312

IV. Total Hydro Generation:

Regional Entities Hydro	12234	8874	1232	64.58	2691
State Control Area Hydro	7163	2138	1396	38.55	1820
Total Regional Hydro	19397	11012	2628	103.13	4511

V. Total Renewable Generation:

Regional Entities Renewable	30	0	0	0.04	2
State Control Area Renewable	7356	270	146	6.83	285
Total Regional Renewable	7386	270	146	6.87	286

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)	200	-500	200	500	0.73	5.09	-4.36
765 KV Gwalior-Agra (D/C)	1245	1527	2438	0	42.01	0.00	42.01
400 KV Zerda-Kankroli	-229	-273	0	288	0.00	5.04	-5.04
400 KV Zerda-Bhimnal	-137	-165	103	240	0.00	2.22	-2.22
220 KV Auraiya-Malanpur	-95	-71	0	104	0.00	1.47	-1.47
220 KV Badod-Kota/Morak	-81	-134	0	151	0.00	2.27	-2.27
Mundra-Mohinderghar(HVDC Bipole)	2496	2197	2508	0.00	56.65	0.00	56.65
400 KV RAPPCC-Sujalpur	343	240	545	0	8.71	0.00	8.71
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1199	1026	1604	0	31.17	0.00	31.17
Sub Total WR	4941	3847			139.27	16.09	123.18
400 kV Sasaram - Varanasi	-310	-250	310	0	6.82	0.00	6.82
400 kV Sasaram - Allahabad	-23	-92	105	0	1.49	0.00	1.49
400 KV MZP- GKP (D/C)	50	491	550	0	9.30	0.00	9.30
400 KV Patna-Balia(D/C) X 2	322	342	419	0	7.98	0.00	7.98
400 KV B'Sharif-Balia (D/C)	104	242	375	0	6.14	0.00	6.14
765 KV Gaya-Balia	200	251	347	0	6.68	0.00	6.68
765 KV Gaya-Varanasi (D/C)	-238	-498	729	0	13.18	0.00	13.18
220 KV Pusaali-Sahupuri	-148	-156	210	0	4.01	0.00	4.01
132 KV K'nasa-Sahupuri	-28	-26	0	36	0.00	0.55	-0.55
132 KV Son Ngr-Rihand	-20	-37	0	42	0.00	0.80	-0.80
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-143	-46	118	143	0.00	0.18	-0.18
400 KV Barh -GKP (D/C)	300	272	370	0	6.75	0.00	6.75
400 kV B'Sharif - Varanasi (D/C)	76	-149	233	76	2.79	0.00	2.79
Sub Total ER	142	344			65.14	1.52	63.61
+/- 800 KV BiswanathChariali-Agra	-500	-500	0	500.00	0.00	12.26	-12.26
Sub Total NER	-500	-500			0.00	12.26	-12.26
Total IR Exch	4583	3691			204.41	29.87	174.53

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
46.74	0.98	47.72	2.37	-8.56	13.39	2.03	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
63.49	105.78	169.27	51.35	123.18	174.53	-12.13	17.39	5.26

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	-27	-25	0	31	0	1	-0.71

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	1.02	13.78	65.13	74.32	9.88	2.13	0.03	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)		
50.20	13.03	49.76	16.45	49.97	0.052	0.00	0.00	25.68	

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	405	0:00	398	12:33	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	422	0:00	402	17:48	0.0	0.0	1.8	0.0	1.8
Bareilly(PG)400kV	400	424	0:00	397	22:44	0.0	0.0	15.1	0.0	15.1
Kanpur	400	422	0:03	401	15:10	0.0	0.0	1.2	0.0	1.2
Dadri	400	428	2:01	404	15:06	0.0	0.0	26.8	0.0	26.8
Ballabgarh	400	432	0:06	407	12:14	0.0	0.0	43.3	11.4	43.3
Bawana	400	429	0:04	406	15:11	0.0	0.0	39.3	0.0	39.3
Bassi	400	423	4:01	394	12:13	0.0	0.0	2.3	0.0	2.3
Hissar	400	421	3:59	395	15:11	0.0	0.0	0.0	0.0	0.0
Moga	400	422	0:01	399	15:09	0.0	0.0	18.7	0.0	18.7
Abdullapur	400	425	3:20	403	15:08	0.0	0.0	27.0	0.0	27.0
Nalagarh	400	430	2:02	408	15:10	0.0	0.0	33.1	0.0	33.1
Kishenpur	400	420	2:00	388	15:06	0.0	0.5	0.0	0.0	0.0
Wagoora	400	394	15:40	360	15:06	59.3	90.7	0.0	0.0	59.3
Amritsar	400	432	4:03	407	10:47	0.0	0.0	41.9	4.9	41.9
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	426	3:19	403	18:20	0.0	0.0	30.8	0.0	30.8
Rishikesh	400	422	20:39	394	9:38	0.0	0.0	2.9	0.0	2.9

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	781	0:15	740	9:39	0.0	0.9	0.0	0.0	0.0
Balia	765	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Moga	765	800	20:21	761	15:10	0.0	0.0	0.0	0.0	0.0

Agra	765	793	0:00	753	9:41	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	807	0:00	771	9:37	0.0	0.0	26.4	0.0	26.4
Unnao	765	778	0:03	739	14:54	0.0	6.4	0.0	0.0	0.0
Lucknow	765	808	0:00	767	15:11	0.0	0.0	3.4	0.0	3.4
Meerut	765	811	20:39	767	15:11	0.0	0.0	6.6	0.0	6.6
Jhatikara	765	808	0:00	767	15:11	0.0	0.0	19.1	0.0	19.1
Bareilly 765 kV	765	801	0:00	761	9:38	0.0	0.0	0.4	0.0	0.4
Anta	765	793	20:41	767	7:35	0.0	0.0	0.0	0.0	0.0
Phagi	765	799	20:21	764	9:42	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	493.39	848.04	505.29	1325.82	179.56	457.83
Pong	426.72	384.05	410.98	524.54	414.55	656.23	51.28	316.58
Tehri	829.79	740.04	815.40	910.26	810.10	804.26	49.79	157.00
Koteshwar	612.50	598.50	610.17	4.60	611.20	5.20	157.00	163.83
Chamera-I	760.00	748.75	0.00	0.00	0.00	0.00	45.30	37.39
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	507.99	3.15	504.57	4.33	39.48	130.52

* 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	-461	2	0	-542	0	0	-13.71	1.08	-12.63
Delhi	-283	-399	0	-371	-136	0	-8.85	-3.24	-12.09
Haryana	-852	339	0	-545	318	0	-15.60	6.35	-9.25
HP	385	72	0	268	23	0	9.39	-1.43	7.97
J&K	621	148	0	617	133	0	14.70	1.99	16.69
CHD	0	0	0	0	0	0	0.00	0.00	0.00
Rajasthan	-7	309	0	-7	221	0	4.40	13.89	18.29
UP	126	0	0	-100	-100	0	-6.31	-1.60	-7.91
Uttarakhand	341	81	0	245	-3	0	7.40	1.03	8.43
Total	-130	552	0	-435	456	0	-8.57	18.08	9.52

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

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-419	-752	444	-108	0	0
Delhi	-283	-460	206	-431	0	-7
Haryana	-543	-874	344	-350	0	0
HP	550	126	72	-505	0	0
J&K	621	602	247	-258	0	0
CHD	0	0	0	0	0	0
Rajasthan	450	-7	1756	-9	0	0
UP	161	-734	0	-100	0	0
Uttarakhand	341	226	212	-130	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	1.74%

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

WR	28.82%
ER	0.00%
Simultaneous	33.68%

(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	0	12
Haryana	1	18
Rajasthan	0	11
Delhi	5	39
UP	0	12
Uttarakhand	3	17
HP	2	26
J & K	5	50
Chandigarh	1	16

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 08.12.2016 :

Fog in some parts of NR.

XVI. Synchronisation of new generating units :

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

0

0

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 : 08.12.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER